



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
David V. DOBRESKI et al.

Confirmation No.: 3399

Patent No.: 6,821,589 B2

Application No.: 10/046,403

Patent Date: November 23, 2004

Filing Date: January 14, 2002

For: FASTENERS WITH FIN PORTIONS

Attorney Docket No.: 086012-02090-USDI

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.322

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Patentees hereby respectfully request the issuance of a Certificate of Correction in connection with the above-identified patent. The corrections are listed on the attached Form PTO-1050, submitted in duplicate.

The corrections requested are as follows:

On the title page at Item (75) Inventors, please change "Steve P Long" to
-- Steve P. Long --. Support for this change can be found on the Declaration filed with the original application papers on January 14, 2002.

At column 14, line 36 (claim 30, line 1), please change "claim 30" to
-- claim 29 --. Support for this change can be found in application claim 94.

At column 16, line 39 (claim 61, line 7), before "a first resin which is ultra low density", insert -- from --. Support for this change can be found application claim 134.

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CERTIFICATES OF CORRECTION

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The requested corrections are for errors that appear to have been made by the Office. Therefore, no fee is believed to be due for this request. Should any fees be required, however, please charge such fees to Winston & Strawn LLP Deposit Account No. 50-1814. Please issue a Certificate of Correction in due course.

Respectfully submitted,

February 7, 2005

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.: 6,821,589 B2
DATED: November 23, 2004
INVENTORS: Dobreski et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page:

At Item (75) Inventors, change "Steve P Long" to -- Steve P. Long --.

Column 14:

Line 36, change "claim 30" to -- claim 29 --.

Column 16:

Line 39, before "a first resin which is ultra low density", insert -- from --.

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Line 39, before "a first resin which is ultra low density", insert -- from --.



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(12) **United States Patent**
Dobreski et al.

(10) Patent No.: **US 6,821,589 B2**
(45) Date of Patent: **Nov. 23, 2004**

(54) **FASTENERS WITH FIN PORTIONS**

(75) Inventors: **David V. Dobreski, Fairport, NY (US); Steve P. Long, Canandaigua, NY (US)**

(73) Assignee: **Pactiv Corporation, Lake Forest, IL (US)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/046,403**

(22) Filed: **Jan. 14, 2002**

(65) **Prior Publication Data**

US 2002/0090489 A1 Jul. 11, 2002

Related U.S. Application Data

(60) Division of application No. 09/309,001, filed on May 10, 1999, now Pat. No. 6,376,035, which is a continuation-in-part of application No. 08/759,445, filed on Dec. 5, 1996, now Pat. No. 5,919,535.

(51) Int. Cl.⁷ **B29D 22/00; B29D 23/00; B32B 1/08; A44B 19/00; A44B 21/00**

(52) U.S. Cl. **428/35.2; 428/35.7; 428/500; 428/523; 383/64; 24/30.5 L; 24/585.1; 24/585.12**

(58) Field of Search **428/35.2, 200, 428/349, 476.1, 51 L, 35.7, 500, 523; 383/63, 64, 65, 93; 493/214; 24/580, 436, 400, 30.5 L, 415, 437, 441, 584.1, 585.1, 585.12**

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Primary Examiner—Harold Pyon

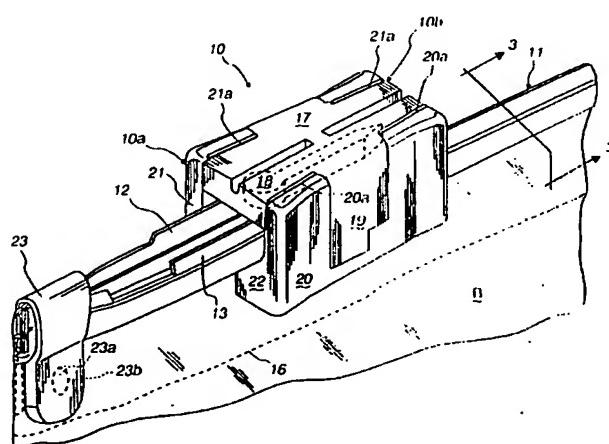
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(57) **ABSTRACT**

A plastic bag comprises first and second panels each having a top, a bottom, and first and second opposing sides. The first and second panels are joined to each other along their respective bottoms, their respective first opposing sides, and their respective second opposing sides. The plastic bag includes a zipper having a male and female track. The male track includes a male profile and a first fin, in which the first fin is affixed to the first panel in proximity to the top of said first panel. The female track includes a female profile and a second fin, in which the second fin is affixed to the second panel in proximity to the top of said second panel. The male and female profiles having complementary cross-sections. The inventive fins comprise a first resin and, optionally, a second resin which, along with the fins seals, are able to withstand greater forces and more adverse conditions. At least one of the fins comprises a first resin having a polydispersity of about 1 to about 4, a melt index of about 0.2 to about 20, and a melt flow ratio of about 12 to about 35. The second resin, if used, may either be coextruded or blended with the first resin.

62 Claims, 3 Drawing Sheets



6. The fastener of claim 1, wherein said first and second fin portions are attached.

7. The fastener of claim 6, wherein said first and second fin portions have lower edges, said lower edges are attached to form a one time openable tamper evident feature.

8. The fastener of claim 1, wherein each of said first and second fin portions comprises from about 5 to about 50 wt. % of said first resin, and from about 50 to about 95 wt. % of said second resin.

9. The fastener of claim 8, wherein each of said first and second fin portions comprises from about 25 to about 50 wt. % of said first resin, and from about 50 to about 75 wt. % of said second resin.

10. The fastener of claim 8, wherein each of said first and second fin portions comprises from about 5 to about 25 wt. % of said first resin, and from about 75 to about 95 wt. % of said second resin.

11. The fastener of claim 1, wherein at least one of said first and second fin portions comprises from about 5 to about 25 wt. % of said first resin, and from about 75 to about 95 wt. % of said second resin.

12. The fastener of claim 11, wherein at least one of said first and second fin portions comprises from about 15 to about 25 wt. % of said first resin, and from about 75 to about 85 wt. % of said second resin.

13. A fastener for a plastic bag, comprising:
a male track including a male profile and a first fin portion; and
a female track including a female profile and a second fin portion, said male and female profiles having complementary cross-sections, at least one of said fin portions made from a first resin selected from the group consisting of an ultra low density polyethylene, a very low density polyethylene, and a metallocene-catalyzed polyethylene, said first resin having a polydispersity of from about 1 to about 4, a melt index of from about 0.2 to about 20 g/10 min., and a melt flow ratio of from about 12 to about 35, and a second resin which is different from said first resin and is low density polyethylene, at least one of said fin portions comprising from about 5 to about 50 wt. % of said first resin, and from about 50 to about 95 wt. % of said second resin.

14. The faster of claim 13, wherein said first resin is an ultra low density polyethylene.

15. The fastener of claim 13, wherein said first resin is a very low density polyethylene.

16. The fastener of claim 13, wherein said first resin is a metallocene-catalyzed polyethylene.

17. The fastener of claim 13, wherein said first resin has a polydispersity of from about 1.5 to about 4.

18. The fastener of claim 13, wherein at least one of said first and second fin portions comprises from about 25 to about 50 wt. % of said first resin, and from about 50 to about 75 wt. % of said second resin.

19. The fastener of claim 13, wherein at least one of said fin portions is prepared by coextruding the first resin and said second resin.

20. The fastener of claim 13, wherein at least one of said fin portions is prepared by blending the first resin and said second resin.

21. The fastener of claim 13, wherein said first and second fin portions are attached.

22. The fastener of claim 21, wherein said first and second fin portions have lower edges, said lower edges are attached to form a one time openable tamper evident feature.

23. The fastener of claim 13, wherein each of said first and second fin portions comprises from about 5 to about 50 wt.

% of said first resin, and from about 50 to about 95 wt. % of said second resin.

24. The fastener of claim 23, wherein each of said first and second fin portions comprises from about 25 to about 50 wt. % of said first resin, and from about 50 to about 75 wt. % of said second resin.

25. The fastener of claim 23, wherein each of said first and second fin portions comprises from about 5 to about 25 wt. % of said first resin, and from about 75 to about 95 wt. % of said second resin.

10 26. The fastener of claim 25, wherein each of said first and second fin portions comprises from about 15 to about 25 wt. % of said first resin, and from about 75 to about 85 wt. % of said second resin.

15 27. The fastener of claim 13, wherein at least one of said first and second fin portions comprises from about 5 to about 25 wt. % of said first resin, and from about 75 to about 95 wt. % of said second resin.

20 28. The fastener of claim 27, wherein at least one of said first and second fin portions comprises from about 15 to about 25 wt. % of said first resin, and from about 75 to about 85 wt. % of said second resin.

29 29. A fastener for a plastic bag, comprising:
a male track including a male profile and a first fin portion; and

25 a female track including a female profile and a second fin portion, said male and female profiles having complementary cross-sections, at least one of said fin portions made from a first resin which is prepared in the presence of a single site catalyst, said first resin having a polydispersity of from about 2 to about 3, a melt index of from about 0.2 to about 20 g/10 min., and a melt flow ratio of from about 12 to about 35, and a second resin which is a low density polyethylene, at least one of said fin portions comprising from about 50 to 100 wt. % of said first resin, and from 0 to about 50 wt. % of said second resin.

30 30. The fastener of claim 29, wherein said first and second fin portions are attached.

31. The fastener of claim 30, wherein said first and second fin portions have lower edges, said lower edges are attached to form a one time openable tamper evident feature.

32. The fastener of claim 29, wherein said first resin is prepared in the presence of a metallocene catalyst.

33. The fastener of claim 29, wherein said first resin is a metallocene-catalyzed linear low density polyethylene.

34. The fastener of claim 29, wherein at least one of said fin portions is prepared by coextruding the first resin and said second resin.

35. The fastener of claim 29 wherein the fastener comprises said second resin and wherein at least one of said fin portions is prepared by blending the first resin and said second resin.

36. The fastener of claim 29, wherein at least one of said fin portions comprises from about 50 to about 90 wt. % of said first resin, and from about 10 to about 50 wt. % of said second resin.

37. The fastener of claim 36, wherein at least one of said fin portions comprises from about 60 to about 85 wt. % of said first resin, and from about 15 to about 40 wt. % of said second resin.

38. The fastener of claim 36, wherein at least one of the fin portions comprises from about 50 to about 75 wt. % of said first resin, and from about 25 to about 50 wt. % of said second resin.

39. The fastener of claim 38, wherein at least one of the fin portions comprises from about 50 to about 60 wt. % of said first resin, and from about 40 to about 50 wt. % of said second resin.

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40. The fastener of claim 29, wherein each of the fin portions comprises from about 50 to 100 wt. % of said first resin, and from 0 to about 50 wt. % of said second resin.

41. The fastener of claim 40, wherein each of the fin portions comprises from about 50 to about 90 wt. % of said first resin, and from about 10 to about 50 wt. % of said second resin.

42. The fastener of claim 41, wherein each of the fin portions comprises from about 60 to about 85 wt. % of said first resin, and from about 15 to about 40 wt. % of said second resin.

43. The fastener of claim 41, wherein each of the fin portions comprises from about 50 to about 75 wt. % of said first resin, and from about 25 to about 50 wt. % of said second resin.

44. The fastener of claim 43, wherein each of the fin portions comprises from about 50 to about 60 wt. % of said first resin, and from about 40 to about 50 wt. % of said second resin.

45. A fastener for a plastic bag, comprising:

a male track including a male profile and a first fin portion; and

a female track including a female profile and a second fin portion, said male and female profiles having complementary cross-sections, at least one of said fin portions made from a first resin selected from the group consisting of an ultra low density polyethylene, a very low density polyethylene, and a metallocene-catalyzed linear low density polyethylene, said first resin having a polydispersity of from about 1 to about 4, a melt index of from about 0.2 to about 20 g/10 min., and a melt flow ratio of from about 12 to about 35, and a second resin which is a low density polyethylene, at least one of said fins comprising from about 50 to about 90 wt. % of said first resin, and from about 10 to about 50 wt. % of said second resin.

46. The fastener of claim 45, wherein said first resin is an ultra low density polyethylene.

47. The fastener of claim 45, wherein said first resin is a very low density polyethylene.

48. The fastener of claim 45, wherein said first resin is a metallocene-catalyzed polyethylene.

49. The fastener of claim 45 wherein said first resin has a polydispersity of from about 1.5 to about 4.

50. The fastener of claim 45, wherein at least one of said first and second fin portions comprises from about 60 to about 85 wt. % of said first resin, and from about 15 to about 40 wt. % of said second resin.

51. The fastener of claim 45, wherein at least one of said fin portions is prepared by coextruding the first resin and said second resin.

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52. The fastener of claim 45, wherein at least one of said fin portions is prepared by blending the first resin and said second resin.

53. The fastener of claim 45, wherein said first and second fin portions are attached.

54. The fastener of claim 53, wherein said first and second fin portions have lower edges, said lower edges are attached to form a one time openable tamper evident feature.

55. The fastener of claim 45, wherein at least one of said first and second fin portions comprises from about 50 to about 75 wt. % of said first resin, and from about 25 to about 50 wt. % of said second resin.

56. The fastener of claim 55, wherein at least one of said first and second fin portions comprises from about 50 to about 60 wt. % of said first resin, and from about 40 to about 50 wt. % of said second resin.

57. The fastener of claim 45, wherein each of said fin portions comprises from about 50 to about 90 wt. % of said first resin, and from about 10 to about 50 wt. % of said second resin.

58. The fastener of claim 57, wherein each of the fin portions comprises from about 60 to about 85 wt. % of said first resin, and from about 15 to about 40 wt. % of said second resin.

59. The fastener of claim 57, wherein each of the fin portions comprises from about 50 to about 75 wt. % of said first resin, and from about 25 to about 50 wt. % of said second resin.

60. The fastener of claim 59, wherein each of said first and second fin portions comprises from about 50 to about 60 wt. % of said first resin, and from about 40 to about 50 wt. % of said second resin.

61. A fastener for a plastic bag, comprising:

a male track including a male profile and a first fin portion; and

a female track including a female profile and a second fin portion, said male and female profiles having complementary cross-sections, at least one of said fin portions is made of a first resin which is ultra low density polyethylene, said first resin having a polydispersity of from about 1 to about 4, a melt index of from about 0.2 to about 20 g/10 min., and a melt flow ratio of from about 12 to about 35, and a second resin which is low density polyethylene, at least one of said fin portions comprising from about 25 to about 75 wt. % of said first resin, and from about 25 to about 75 wt. % of said second resin.

62. The fastener of claim 61, wherein said first and second fin portions are attached.

* * * * *

from